

# Work Order ID 97610

**\*97610\***

Page 1

February-21-13 1:06:15 PM

Item ID: D4148-3

Accept

**\*N900040100\***

Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Stud Receiver, Lower

Start Date: 2/20/13 Start Qty: 12.00

**\*12\***

Cust Item ID:

Required Date: 3/08/13 Req'd Qty: 12.00

**\*12\***

Customer:

Reference:

Approvals: Process Plan: MLS

Date: 13-02-25 Tooling:

Date:

Run Start **\*NR1\***

QC:

Date: SPC (Y/N):

Date:

Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
<b>Draw Nbr</b>	<b>Revision Nbr</b>								
D4148	d								<u>13-3-3</u>
100	Cut blanks as per folio	0.00							
<b>*100*</b>									
Bandsaw	Memo	0.00							
Jeaspa Bandsaw	5.350" LONG								
110		0.00							
<b>*110*</b>									
HAAS I	Memo	0.00							
HAAS CNC vertical machine #1	MACHINE AS PER FOLI FA944 AND DWG								
	FOLIO REV: <u>AA</u>								
	DWG REV: <u>D</u>								
	DEBURR								

JFC/b.p. 2013-03-06

12

0

Work Order ID 97610

\*97610\*

Page 2

February-21-13 1:06:15 PM

Item ID: D4148-3 Accept \*N9000040100\* Setup Start \*NS1\*  
Revision ID: Stop \*NS2\*  
Item Name: Stud Receiver, Lower  
Start Date: 2/20/13 Start Qty: 12.00 \*12\* Cust Item ID:  
Required Date: 3/08/13 Req'd Qty: 12.00 \*12\* Customer:  
Reference:  
Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start \*NR1\*  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop \*NR2\*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC2- Inspect parts off machine FAI/FAIB  Memo	0.00 0.00	JFC/ba	2013-03-06		12	0		
130 *130* QC Quality Control	QC8- Inspect parts - second check  Memo	0.00 0.00	FK	13/03/07		12	0		
170 *170* Packaging Packaging	Identify as per dwg & Stock Location  Memo	0.00 0.00	ST145			12x		50 13-38	

**Work Order ID 97610****\*97610\***

Page 3

February-21-13 1:06:15 PM

Item ID: D4148-3

Accept

**\*N9000040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Stud Receiver, Lower

Start Date: 2/20/13 Start Qty: 12.00

**\*12\***

Cust Item ID:

Required Date: 3/08/13 Req'd Qty: 12.00

**\*12\***

Customer:

Reference:

Run Start **\*NR1\***

Approvals:

Process Plan: \_\_\_\_\_

Date: \_\_\_\_\_

Tooling: \_\_\_\_\_

Date: \_\_\_\_\_

Stop **\*NR2\***

QC: \_\_\_\_\_

Date: \_\_\_\_\_

SPC (Y/N): \_\_\_\_\_

Date: \_\_\_\_\_

Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

180

QC21- Final Inspection - Work Order Release

0.00

**\*180\***

QC

Memo

0.00

Quality Control

MLJ 13-03-11

1/13-03-11

# Picklist Print

Page 1

February-21-13 1:06:15 PM

Work Order ID: 97610

Parent Item: D4148-3

Parent Item Name: Stud Receiver, Lower

Start Date: 2/20/13

Required Date: 3/08/13

Start Qty: 12.00

Required Qty: 12.00

Comments: IPP REV:A NEW ISSUE 10-06-24 JLM VERIFIED BY:DD IPP REV:B 11.03.02 AS PER  
DWG REV.D DD VERF:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303B1.000X03.000 303 BAR 1" X 3'		Purchased	No			100	f	37.1700	0.48	5.76			

4 B-3-3

Location

Loc Qty

Loc Code

MAT049

37.17

123954

12.17

124079

25

5.8

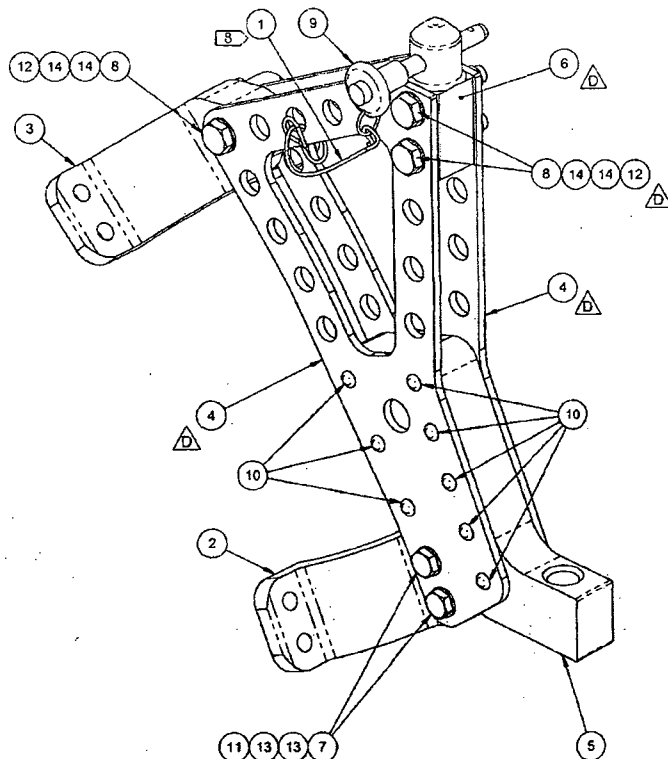
<b>DART AEROSPACE LTD</b>	<b>Work Order:</b>	97610
<b>Description:</b> Stud Receiver Lower	<b>Part Number:</b>	D4148-3
<b>Inspection Dwg:</b> D4148 <b>Rev:</b> D		<b>Page 1 of 1</b>

## FIRST ARTICLE INSPECTION CHECKLIST

[illegible]

Measured by: JFC/b.a.	Audited by: AK	Preliminary Approval:
Date: 20130306	Date: 13/03/07	Date:

Rev	Date	Change	Revised by	Approved
A	10.08.04	New Issue	KJ	
B	10.08.18	Dimensions updated per Dwg Rev B	KJ	
C	10.11.09	Dimensions updated per Dwg Rev C	KJ	
D	11.04.05	Dwg Rev updated	KJ	



**D4148-041 FWD X-TUBE LUG ASSY**

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4148-041" PER DART QSI 044 6.1
- 7) WEIGHT: 3.67 lbs
- 8) ATTACH D2690-6 TO D4148-1 BY LOOPING AROUND A LIGHTENING HOLE FIRST AND THEN SECURE TO MS17984-C413

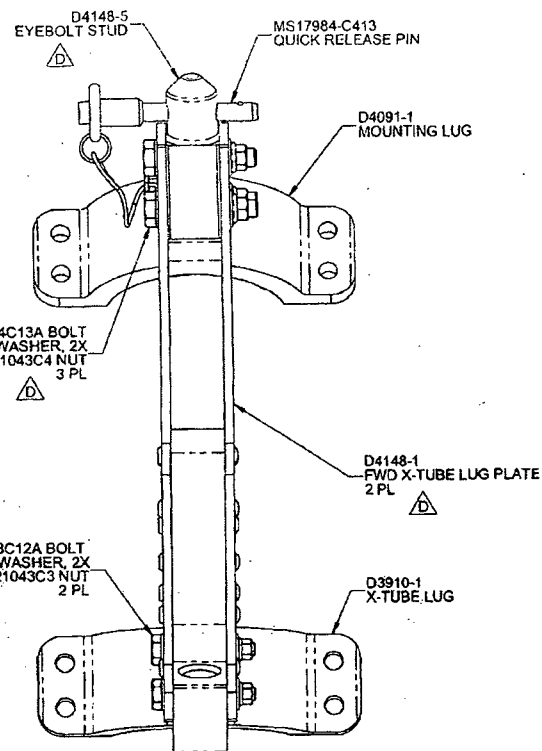
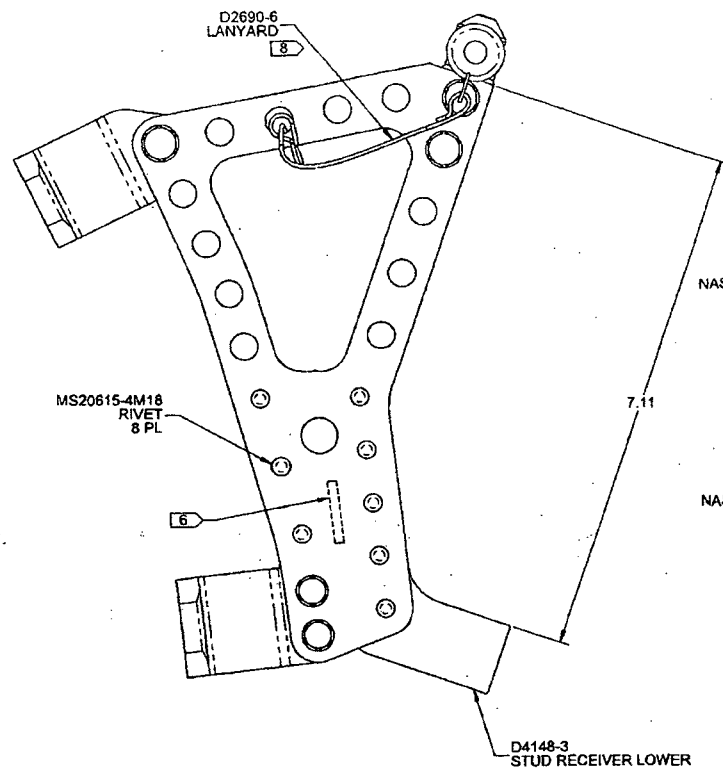
ITEM	QTY -041	P/N	DESCRIPTION
	X	D4148-041	FWD X-TUBE LUG ASSY
1	1	D2690-6	LANYARD
2	1	D3910-1	X-TUBE LUG
3	1	D4091-1	MOUNTING LUG
4	2	D4148-1	FWD X-TUBE LUG PLATE
5	1	D4148-3	STUD RECEIVER LOWER
6	1	D4148-5	EYEBOLT STUD
7	2	AN3C12A	BOLT
8	3	AN4C13A	BOLT
9	1	MS17984-C413	PIP PIN
10	8	MS20615-4M18	RIVET
11	2	MS21043C3	NUT
12	3	MS21043C4	NUT
13	4	NAS1149C0332R	WASHER
14	6	NAS1149C0432R	WASHER

**RELEASED**  
2011-02-24

97610 MJS  
13-02-25

D	HOLE DIA CHANGED TO 0.252" (D8-3); HOLE DIA CHANGED TO 0.250" (C8-5); REPLACED QTY(2) AN3C12A, MS21043C3 AND QTY(4) NAS1149C0332R WITH QTY(2) AN3C13A, MS21043C4 AND QTY(4) NAS1149C0432R (D3-1, C4-2)	SC	11.02.22
C	REDESIGNED D4148-1/3 TO ADDRESS COMPATIBILITY ISSUES WITH D350-591 SHORT STEPS	MB	10.10.12
B	REPLACED QTY(3) MS20615-4M18 WITH QTY(2) EACH AN3C12A, MS21043-3 AND QTY(4) NAS1149C0332R WASHER (ZN D3-1, B7-2 & B4-2); MS20615-4M18 WAS MS20615-4M20 (ZN D3-1 & B7-2); Ø0.191 2 PL REPLACES Ø0.129 3 PL (ZN D8-3); Ø0.129 7 PL WAS 10 PL (ZN A7-3); Ø0.191 WAS 0.129 (ZN C8-5); REASON: SEE TR-D350-607-2 REV. B.	MB	10.07.05
A	NEW ISSUE	MB	10.08.18
REV.	DESCRIPTION	BY	DATE
DESIGN	MB	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	SC		
CHECKED		DRAWING NO.	REV. D
MFG. APPR.		D4148	SHEET 1 OF 5
APPROVED		TITLE	SCALE
DE APPR.		FWD X-TUBE LUG ASSY	NTS
DATE	11.02.22	COPYRIGHT © 2010 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

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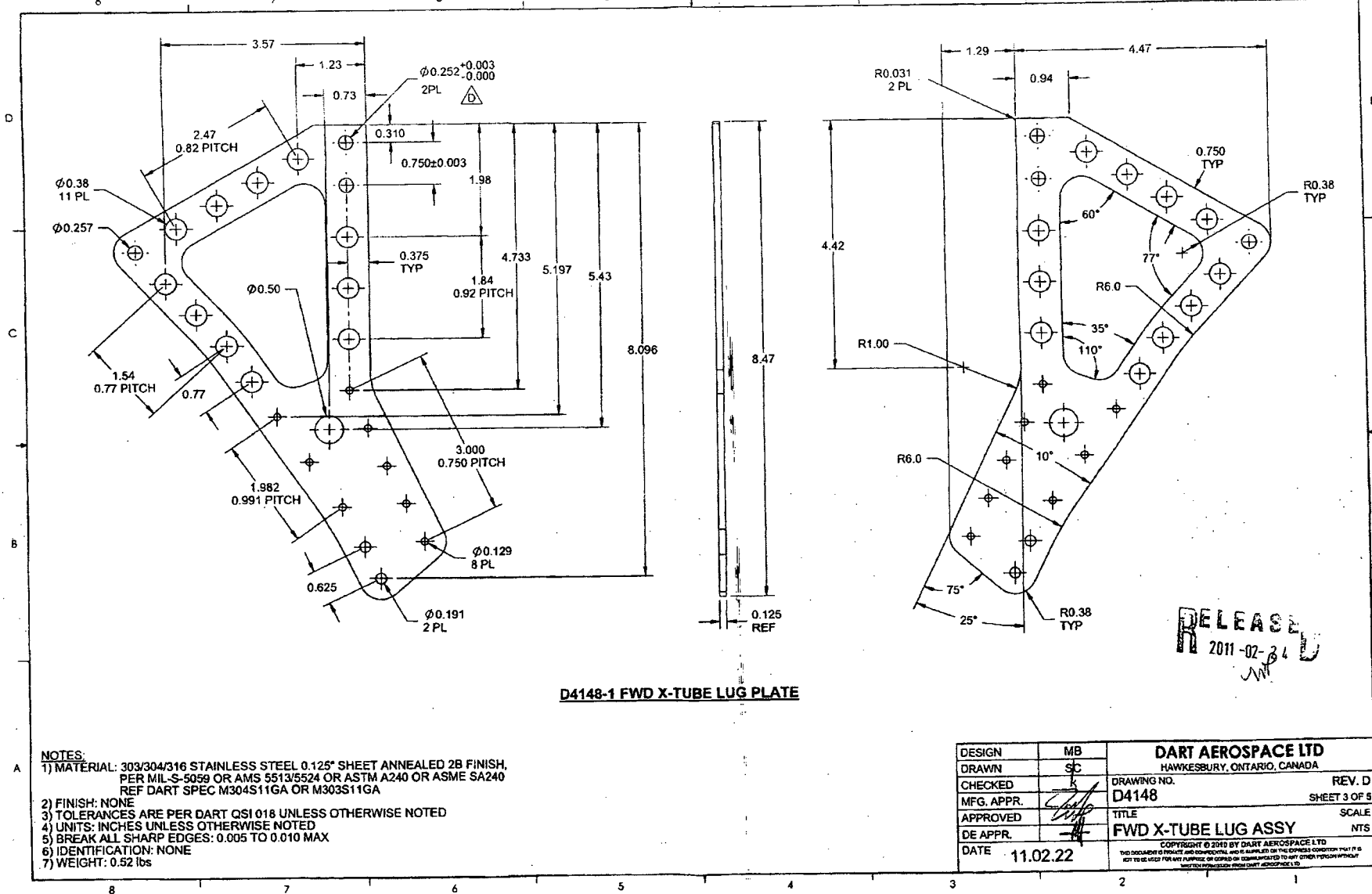


**D4148-041 FWD X-TUBE LUG ASSY**

**RELEASED**  
2011-02-24

DESIGN	MB	<b>DART AEROSPACE LTD</b>	
DRAWN	SC	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO. <b>D4148</b>	REV. D
MFG. APPR.			SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>FWD X-TUBE LUG ASSY</b>	NTS
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D4148-1 FWD X-TUBE LUG PLATE

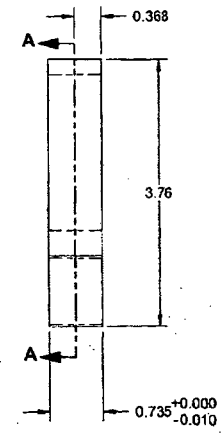
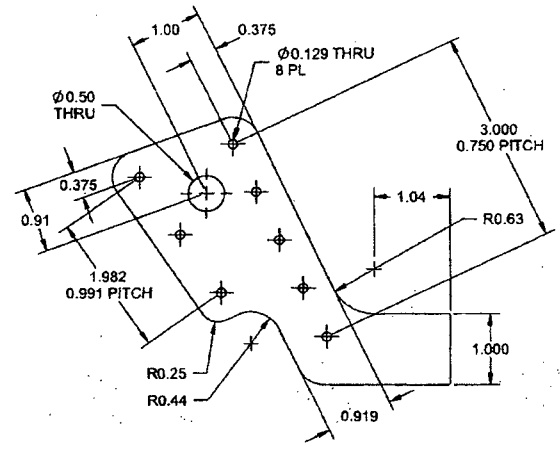
NOTES:

- 1) MATERIAL: 303/304/316 STAINLESS STEEL 0.125" SHEET ANNEALED 2B FINISH, PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240 REF DART SPEC M304S11GA OR M303S11GA
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.52 lbs

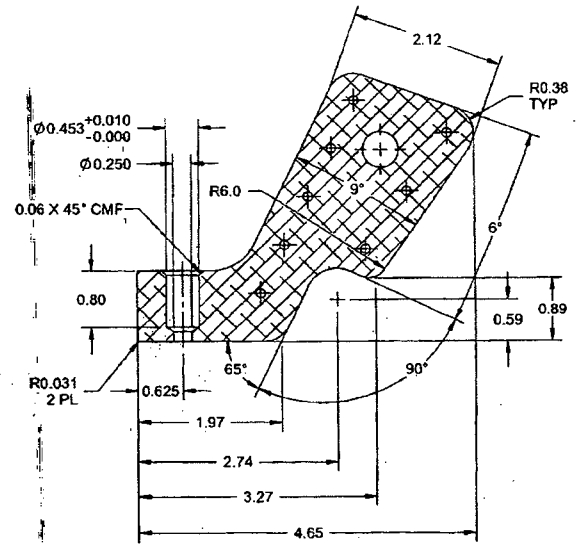
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DRAWN	SC	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. D
MFG. APPR.		D4148	SHEET 3 OF 5
APPROVED		TITLE	SCALE
DE APPR.		FWD X-TUBE LUG ASSY	NTS
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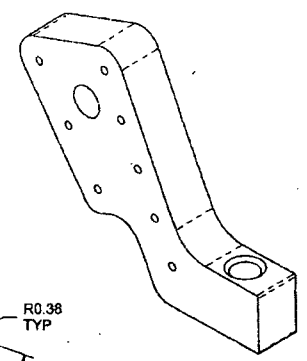
7610



**D4148-3 STUD RECEIVER LOWER**





**SECTION A-A**

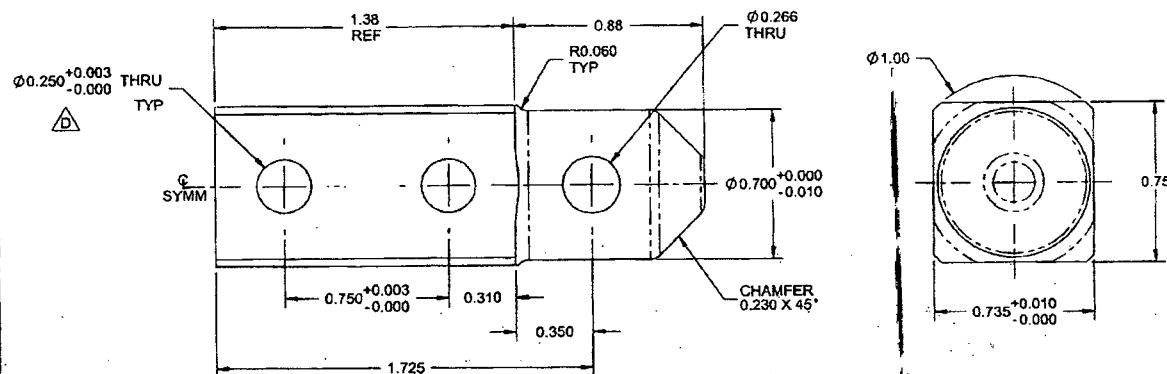


**RELEASED**  
2011-02-24

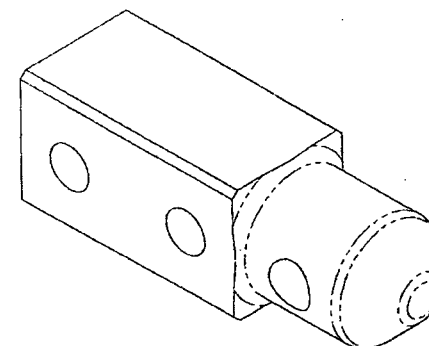
- NOTES:**
- 1) MATERIAL: 303/304/316 STAINLESS STEEL BAR PER ASTM A582 OR ASTM A276  
REF DART SPEC M304B OR M303B
  - 2) FINISH: NONE
  - 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK ALL SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: NONE
  - 7) WEIGHT: 1.52 lbs

DESIGN	MB	<b>DART AEROSPACE LTD</b>	
DRAWN	SC	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. D
MFG. APPR.		<b>D4148</b>	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>FWD X-TUBE LUG ASSY</b>	NTS
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


D4148-5 EYEBOLT STUD



RELEASED  
2011-02-24

NOTES:

- 1) MATERIAL: 303/304/316 STAINLESS STEEL BAR PER ASTM A582 OR ASTM A276  
REF DART SPEC M304B OR M303B
- 2) FINISH: NONE
- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK ALL SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 0.27 lbs

DESIGN	MB	DART AEROSPACE LTD	
DRAWN	SC	HAWKESBURY, ONTARIO, CANADA	
CHECKED	A	DRAWING NO.	REV. I
MFG. APPR.		D4148	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		FWD X-TUBE LUG ASSY	NT
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# Receiving Report

Date: 12/14/20  
 Supplier: THYSSSEN

Batch No: M 2 4080  
 Dart P/O: 18656 18619

Packing Slip: Yes ☒ No ☐  
 Invoice: Yes ☐ No ☒  
 Receipt: Cash ☐ Cr ☐

Release Note Attached: Yes ☒ No ☐ N/A ☐  
 Waybill Attached: Yes ☐ No ☒ N/A ☐  
 Shipment Complete: Yes ☒ No ☐ N/A ☐  
 QC6 Inspection OK 12/24 N/A ☒  
 Work Order                     

## Discrepancies

Part Number	Description	Quantity Ordered	Quantity Received	Quantity Returned	Quantity Short	Comments

Initials of receiver (if shipment OK) Level 12                     

Production/Admin: 12/14/21  
 Date                       
 Received/Costing                       
 Initial                     

Location

All amounts are calculated in domestic currency.

All Vendors PO ID PO18619 Receipt Dates from 12/21/2012 to 12/21/2012 All Line Item Types  
All Item ID/GL/WOs All Rec. Employees All Currencies  
Grouped by Vendor ID

[illegible]

# B I L L O F L A D I N G

Ship From:  
 THYSSENKRUPP MATERIALS NA  
 2821 LANGSTAFF ROAD  
 CONCORD, ONTARIO L4K 5C6  
 Tel: 905 669 9444 Fax: 905-738-9033

Ship To: ( 1 )  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7  
 Tel: 613-632-9577 Fax: 613-632-1053

No: PEC 800500  
 Ship Date 20Dec12 at 15:29 From PFW  
 Probill  
 Via VIM TRANSFER  
 FOB CONCORD  
 Frt PREPAID  
 Route 0- 0 Manifest  
 Vhcle Trailer  
 Slp STAN IVERS (905-532-1350)  
 Sold To: ( 20115 )  
 DART AEROSPACE  
 1270 ABERDEEN ST  
 HAWKESBURY, ON K6A 1K7

088

## B I L L O F L A D I N G

✓ 1) Our Order PEC-519540- 1 Your PO # 18619 ADD ON  
 Part # 4-6 DAYS A.R.O  
 ALUMINUM SQUARE BAR 7075-T651  
 1.00" X 144.0000"

\*\* \$225.00 MIN ORDER \*\*

Heat Number  
 MA20125516

Tag No  
 135300

Quantity  
 12 FT

PCS 1 MTR Wt LBS  
 15

✓ 2) Our Order PEC-519540- 2 Your PO # 18619 ADD ON  
 STAINLESS STEEL FLAT BAR 303CD  
 1.00" X 3.00" X 150.0000"

Heat Number  
 253093

Tag No  
 546432

Quantity  
 25 FT

PCS 2 MTR Wt LBS  
 21

✓ 3) Our Order PEC-519540- 3 Your PO # 18619 ADD ON  
 ALUMINUM SQUARE BAR 7075-T651  
 1.50" X 144.0000"

Heat Number  
 MA0120030015

Tag No  
 135302

Quantity  
 12 FT

PCS 1 MTR Wt LBS  
 33

✓ 4) Our Order PEC-519540- 4 Your PO # 18619 ADD ON  
 STAINLESS STEEL ROUND BAR 17-4 STAINLESS  
 .750" DIA X 144.0000"

Heat Number  
 G19883

Tag No  
 135359

Quantity  
 36 FT

PCS 3 MTR Wt LBS  
 53

TOTAL: Tags 4 PCS 7 LBS 355

Page: 1 ....Continued

*Rec'd 20*

2 tube  
 1 planche  
 1 bundle

(4) G.C

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
 RAPPORTÉES IMMÉDIATEMENT  
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY  
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT  
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

DATE

## B I L L O F L A D I N G

No: PEC 800500

Ship From:  
THYSSENKRUPP MATERIALS NA  
2821 LANGSTAFF ROAD  
CONCORD, ONTARIO L4K 5C6  
Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 20Dec12 at 15:29 From PFW  
Probill  
Via VIM TRANSFER  
FOB CONCORD  
Frt PREPAID  
Route 0- 0 Manifest  
Vhcle Trailer  
Slp STAN IVERS (905-532-1350)  
Sold To: ( 20115)  
DART AEROSPACE

Ship To: ( 1)  
DART AEROSPACE

## B I L L O F L A D I N G

Heat Number  
253093  
G19883

\*\*\* Chemical Analysis \*\*\*

ADD ON TO 518871 SUR-CHARGE PAID SHIP TOGETHER

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT  
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR  
TO SHIPPING.

ATTN: CHANTAL/LINDA

\*\* ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER \*\*  
\*\* REFERENCED ON IT \*\*

TOTAL (1-4) 2 BDLS, 2 TUBES GW. 380 LBS

\*\*\*\*\* CLOSED FOR THE HOLIDAYS \*\*\*\*\*

ON DEC. 25TH &amp; 26TH, 31ST &amp; JAN. 1ST.

WE ARE OPENED FOR BUSINESS ON DEC. 24, 27 &amp; 28.

HAVE A HAPPY HOLIDAY SEASON!

\*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA

CONCORD, ONT.\* \*\*\* 9:00 AM TO 4:00 PM \*\*\*

\*\*\*\* TEL. 800-926-2600 \*\*\*\*

\*\*\*\*\*

\* WE STOCK STAINLESS STEEL \*

\* PLEASE LET US QUOTE YOUR NEXT REQUIREMENT \*

\*\*\*\*\*

\*\*\*PLEASE NOTE A \$25.00 ENERGY SURCHARGE WILL BE  
ADDED TO EVERY ORDER.\*\*\*

Page: 2 .... Last

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE  
RAPPORTÉES IMMÉDIATEMENT

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT  
MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

REÇU EN BONNE CONDITIONS / RECEIVED IN GOOD CONDITION

TVQ/GST# 1017327981 T0001 TPS/GST TVH/HST # 140223934 RT0001

DATE

# Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Essaler/Purchaser/Clien  
VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/turn/Usine produce

Stato di fornitura: - Annealed Cold Drawn  
Lieferzustand/Delivery state/Etat de livraison

Specifiche:  
Anforderungen / Requirements / Exigences

VSI 0303 A,CF  
AMS 5840 U TYPE1 A  
ASTM A320 2011A B8F (1)  
MIL-S-862 B/1 303

(0) SEC.II PT.A 2010 EDITION ADD. 2011a  
(1) Chemical analysis only.

Qualità: 303  
Werkstoff/Grade/Variance

Marca: AU188Z/P

Tolleranza: ASTM A484-10  
Toleranz/Allowance/Tolerance

Punzonatura: 303  
Kennzeichnung/Marking/Marquage

Pos. nr. Pos. nr. Nr. de poste	Objetto Gegenstand Produit description	Dimensioni - in Abmessungen Dimension	Lunghezza - in Länge Longth	Colata Schmelze Fusée	Pezzi Stückzahl Pièces	Peso - LB Gewicht Poids	Lotto nr. Losnr. Lot nr.
0080	Flat	3,0000 x 1,0000	137 / 150	253093		2.017	124300080

## TEST ALLO STATO DI FORNITURA

Test on delivery condition Prüfung auf Lieferzustand produkt: test à l'état de fourniture Prueba sobre el material así como entregado

TEST	Proveita/rebasce Bewährung/Rebasce Long. diam. 10mm Stahl diam. 10mm Long. diam. 10mm	Temperatura Temperatur °F	Snervamento Bruchgrenze Yield Stress Unité élastique Rp 0,2% k.s.l.	Resistenza Zugfestigkeit Tensile strength Résistance à traction Rm k.s.l.	Allungamento Bruchdehnung Elongation Allongement E4d %	Strizione Einknickung Reduction of area Striction RA %	Resilienza Kerbschlagarbeit Impact Value Resilience	Durezza Härte Hardeness Dureté HB
Valori richiesti 1 Anforderungen/Required values Valeurs demandées		min max						140 255
A	12,5	68 L	69	100	40	53		237

TEST	min	max
A Grain size for ASTM E112		5

1) L-Longitudinale/Längs, T-transversale/quer, Q-Tangentiale/tangentiel

Mechanical properties according to ASTM A370.

## Analisi chimica

Chemische Zusammensetzung/Chemical Analysis/Analyse chimique

Colata / Heat Schmelze/Coulee	min - max 0,150	1,00	1,60 2,00	17,00 18,00	0,80	1,00	8,00 10,00	0,100	0,25 0,35	0,400	-	-	-	-
	C %	Si %	Mn %	Cr %	Mo %	Cu %	Ni %	Co %	P %	S %	Zr %			
253093	0,037	0,32	1,74	17,16	0,47	0,47	8,21	0,125	0,030	0,33	0,006			

Produced without class I-II Ozone depleting substances.  
Solution heat treated free from continuous carbide network.  
Annealing temperature: 1940°F for 1 h/water.  
Micro and macro etch test: OK  
Material is DFARS Compliant

Sono state soddisfatte tutte le condizioni richieste  
Die gesamten Anforderungen sind s. Anlage erfüllt  
The material has been furnished in accordance with the requirements  
Le matériel a été fourni conforme aux exigences

Controllo antimescolanza: OK  
Verwackelungsprüfung: spektralanalytisch durchgeführt  
Antimixing testing performed: OK  
Contrôle antimélange fait: s.s.

Controllo visivo e dimensionale: soddisfatta la esigenza  
Besichtigung und Ausmessung: ohne Beanstandung  
Visual inspection and dimensional check/satisfactory  
Contrôle visuel et dimensionnel satisfaisant

Melted and manufactured in Italy No welding or weld repair Material free from Mercury contamination  
We declare that the finished product is checked for radioactive contamination through Portal System when it leaves the production plant.  
The Quality Management System is Certified acc. Pressure Equipment Directive [97/23/EC] Annex 1, s. 4.3 by TÜV and LLOYD'S

Vicenza, 13/07/12 V00008 (Mod. MCE2)	Il collaudatore di stabilimento / der Werkssachverständiger / Works Inspector / L'agent d'usine M. Rizzotto	Pagina - 1 di 2
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From: ThyssenKrupp Materials NA

Cust. THYSSENKRUPP MATERIALS NA - ECAD Del: 2402214405

Part: PO: PEC# 244448

Wgt: 254.000 LB Date 12/17/2012

*John R. Zambetti*

# Acciaierie Valbruna S.p.A.

36100 VICENZA (Italia) - Viale della scienza, 25 z.l.  
Stab.: 39100 BOLZANO (Italia) - Via A. Volta, 4

Cliente / Besojen/Purchaser/Clien  
VALBRUNA STAINLESS INC.  
2400 TAYLOR STREET WEST  
46801-FORT WAYNE, IN 46801-US

Produttore: ACCIAIERIE VALBRUNA S.P.A.  
Hersteller/Usine producer

Stato di fornitura: - Annealed Cold Drawn  
Lieferzustand/Delivery state/État de livraison



QUALITY MANAGEMENT SYSTEM  
CERTIFIED BY LLOYD'S REGISTER

Avviso di Spedizione: D-V112021835  
Lieferanzeige/Packing list/S.L.

Ordine nr: 93607 STOCK CAROL STR  
Bestell/Your order/Commande

Tipo di Elaborazione: E+AOD  
Erneuerungsart/Melting process/Mode d'elaboration

CERTIFICATO DI COLLAUDO  
ABNAHMEPRUEFZEUGNIS  
INSPECTION CERTIFICATE  
CERTIFICAT DE RECEPTION  
EN 10204 (2004) , 3.1

Certificato nr: MEST225671/2012/  
Prüfung/Test/Essai

Conferma ordine nr: EH12005792  
Werk/Our Order/Ref. nr.

Marchio di Fabbrica:  
Zeichen des Lieferanten  
Trade mark  
Sigle de l'usine productrice

Funzione del Collaudatore:  
Stempel des Werkssachverständigen  
Inspector's stamp/Plaque de l'essayeur



Any act of tampering, modification, alteration, counterfeiting and/or falsification and/or any other action which modifies the contents of this test certificate shall constitute a violation of applicable civil and criminal laws. Acciaierie Valbruna shall protect its rights and interests before any competent court, authority and jurisdiction.  
The supplied product conforms to requirements expressly requested by the purchaser and conforms to requirements specified by certified norms and standards. Should the product be used for more severe, critical and/or in any case different applications than those the material is generally intended for, any different and/or supplementary requirements shall be specifically demanded, at least, upon order of the Product by the Purchaser. Acciaierie Valbruna SpA shall not be responsible for any improper use of the Products.

Vicenza, 13/07/12  
VCO008  
(Mod. MCE2)

Il collaudatore di stabilimento / der Werkssachverständige / Works Inspector / L' agent d' usine

M. Rizzotto

Pagina - 2 di 2

From: ThyssenKrupp Materials NA  
Cust. THYSSENKRUPP MATERIALS NA - ECAD  
Part:  
Wgt: 254.000 LB

Del: 2402214405  
PO: PEC# 244448  
Date 12/17/2012

John L. Zambetti





Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18619

Purchase Order Date 12/11/12  
PO Print Date 12/11/12

Page Number 1 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Ship To : DART AEROSPACE LTD 1270 ABERDEEN  
HAWKESBURY, ON K6A 1K7  
CANADA

**FAXED**

11/24/09 12/20/09

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1 020	M304S18GA	304/316 .050 Sheet	12/19/12 Yes	320.00 sf	Yours ppd	\$3.2812	\$1,050.00
		<b>Special Inst:</b> MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240  PLEASE NOTE: DO NOT DELIVER BEFORE THE 17 OF DECEMBER  RECEIVING WILL BE CLOSE DECEMBER 13 AND 14 FOR INVENTORY					
2 030	M304S20GA	304/316 .040 Sheet	12/19/12 Yes	320.00 sf	Yours ppd	\$2.4844	\$795.00
		<b>Special Inst:</b> MATERIAL: AISI 304/316 SS SHEET ANNEALED 2B FINISH AS MIL-S-5059 OR AMS 5513 (304) OR AMS 5524 (316) OR ASTM A240 OR ASME SA240					

144/17

PO Instructions: NO: PEC ST-518482 NO: PEC ST-514021  
NO: PEC ST-515417 NO: PEC ST-513880

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO

Change Nbr: 2

Change Date: 12/11/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18619

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 2 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275, POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone  
Vendor Fax  
Vendor Account Nbr

905 669 9444  
905 738 9033

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

3	M7075T6B1.000X1.000	7075 T6 BAR 1.00 x1.00	12/19/12 Yes	12.00 f	Yours ppd	\$12.5959	\$151.15
<b>Special Inst:</b> MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11							
4	M303B1.000X03.000	303 BAR 1" X 3'	12/19/12 No	24.00 f	Yours ppd	\$49.8942	\$1,197.46
<b>Special Inst:</b> MATERIAL: AISI 303 SS BAR AS PER ASTM A582 NOTE: AISI 304/316 NOT ACCEPTABLE							
5	M174R0.750	17-4 round bar .750	12/19/12 Yes	36.00 f	Yours ppd	\$5.1500	\$185.40
<b>Special Inst:</b> MATERIAL: 17-4 PH/S17400 TYPE 630 SS ROUND BAR AS PER AMS 5643 OR ASTM A564							
6	M7075T6B1.500X1.500	7075 T6 BAR 1.500 x 1.500	12/19/12 Yes	12.00 f	Yours ppd	\$16.0000	\$192.00
<b>Special Inst:</b> MATERIAL: 7075-T6 OR T651/T6510/T6511/T62 BAR AS PER AMS-QQ-A-225/9 OR AMS 4122/4123/4186/4187 OR PER AMS-QQ-A-200/11							

PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021  
NO: PEC ST-515417 NO: PEC ST-513880

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO

Change Nbr:

2

Change Date: 12/11/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18619

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 3 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL"A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Qty	Part Number	Description	Unit	Price	Unit Price	Amount	Unit Price
7	M6061T6B0375X00.750	6061T6 BAR .375 x .750	12/19/12	24.00	Yours ppd	\$2.5000	\$60.00

Yes

Special Inst: MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR ASTM B211 OR ASTM B221

8	M6061T6R0.500	6061-T6 Round Bar .500"	12/19/12	48.00	Yours ppd	\$1.2000	\$57.60
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Yes

Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 )OR AMS 4160) OR ASTM B211 OR ASTM B221

9	M6061T6R0.563	6061-T6 ROUND BAR .563	12/19/12	300.00	Yours ppd	\$0.6067	\$182.01
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Yes

Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/ T62) ROUND BAR QQ-A-225/8 OR AMS-QQ-A-225/8 OR (AMS 4117/4128/4115/4116) OR QQ-A-200/8 OR AMS-QQ-A-200/8 )OR AMS 4160) OR ASTM B211 OR ASTM B221

### PO Instructions:

NO: PEC ST-518482 NO: PEC ST-514021  
NO: PEC ST-515417 NO: PEC ST-513880

No substitution or deviation without consent.  
Certificate of Conformity or Material Certification required - YES NO

Change Nbr:

2

Change Date: 12/11/12



Dart Aerospace Ltd.  
1270 Aberdeen Street  
Hawkesbury, ON K6A 1K7  
Tel: 613 632 9577  
Fax: 613 632 1053

## PURCHASE ORDER

Purchase Order ID PO18619

Purchase Order Date 12/11/12

PO Print Date 12/11/12

Page Number 4 of 4

Order From : VC-COP001  
THYSSENKRUPP MATERIALS CA LTD  
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"  
TORONTO, ON M5W 5V8  
CA

Contact Name  
Vendor Phone 905 669 9444  
Vendor Fax 905 738 9033  
Vendor Account Nbr

Buyer Chantal Lavoie  
Requisition Nbr  
Tax Resale Nbr 10127-2607  
Terms Net 30  
Currency CAD  
FOB Destination-Collect

Item	Part Number	Description	Quantity	Unit Price	Total Price
10	M6061T6R0.750	6061-T6 Round Bar .750"	12/19/12 Yes	48.00 f	\$1.0292 \$49.40

Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/  
T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

11	M6061T6R3.500	6061 RD bar 3.50	12/19/12 Yes	12.00 f	\$22.3250 \$267.90
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Special Inst: 6061-T6 (OR 6061-T651/ T6510/ T6511/  
T62) ROUND BAR  
QQ-A-225/8 OR AMS-QQ-A-225/8 OR  
(AMS 4117/4128/4115/4116)  
OR QQ-A-200/8 OR AMS-QQ-A-200/8 )OR  
AMS 4160)  
OR ASTM B211 OR ASTM B221

12	M6063T5AD.750W.063	Angle 6063T5 .750 X.750 X.063w	12/19/12 Yes	21.00 f	\$1.4286 \$30.00
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PO Total: \$4,217.92

MATERIAL CERTIFICATION  
REQ'D UPON DELIVERY

PO Instructions: NO: PEC ST-518482 NO: PEC ST-514021  
NO: PEC ST-515417 NO: PEC ST-513880

Change Nbr: 2

Change Date: 12/11/12

No substitution or deviation without  
consent.  
Certificate of Conformity or Material  
Certification required - YES NO